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NEWS	5	MAR 02	GBFULL: New full-text patent database on STN
NEWS	6	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
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NEWS	8	MAR 22	KOREAPAT now updated monthly; patent information enhanced
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NEWS	16	APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAPLUS
NEWS	17	MAY 23	GBFULL enhanced with patent drawing images
NEWS	18	MAY 23	REGISTRY has been enhanced with source information from CHEMCATS
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=> file agricola caplus biossis

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=> s transposase and positive and negative

L1 73 TRANSPOSASE AND POSITIVE AND NEGATIVE

=> dup rem l1

PROCESSING COMPLETED FOR L1

L2 64 DUP REM L1 (9 DUPLICATES REMOVED)

=> s l2 and coda

L3 0 L2 AND CODA

=> d l2 1-10 ti

L2 ANSWER 1 OF 64 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI Genomic insights that advance the species definition for prokaryotes.

L2 ANSWER 2 OF 64 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI A new insertion sequence, IS14999, from Corynebacterium glutamicum.

L2 ANSWER 3 OF 64 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI Simple and straightforward construction of a mouse gene targeting vector using in vitro transposition reactions.

L2 ANSWER 4 OF 64 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI Method for identification of the indicators of contamination in liquid samples.

L2 ANSWER 5 OF 64 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI Nucleotide sequence and organization of the multiresistance plasmid pSCFS1 from Staphylococcus sciuri.

L2 ANSWER 6 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1  
TI The positive and negative regulation of Tn10 transposition by IHF is mediated by structurally asymmetric transposon arms

L2 ANSWER 7 OF 64 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.

(2005) on STN DUPLICATE 2

TI Germline transformation of the sawfly, *Athalia rosae* (Hymenoptera: Symphyta), mediated by a piggyBac-derived vector.

L2 ANSWER 8 OF 64 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Characterization of class 1 integron resistance gene cassettes and the identification of a novel IS-like element in *Acinetobacter baumannii*.

L2 ANSWER 9 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3

TI Long and short mRNAs transcribed from the medaka fish transposon Tol2 respectively exert positive and negative effects on excision

L2 ANSWER 10 OF 64 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Identification of genes affecting fluconazole susceptibility in *Candida glabrata* using a custom transposon.

=> d ab

L3 HAS NO ANSWERS

L1 73 SEA TRANSPOSASE AND POSITIVE AND NEGATIVE

L2 64 DUP REM L1 (9 DUPLICATES REMOVED)

L3 0 SEA L2 AND CODA

=> d 12 ab

L2 ANSWER 1 OF 64 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

AB To help advance the species definition for prokaryotes, we have compared the gene content of 70 closely related and fully sequenced bacterial genomes to identify whether species boundaries exist, and to determine the role of the organism's ecology on its shared gene content. We found the average nucleotide identity (ANI) of the shared genes between two strains to be a robust means to compare genetic relatedness among strains, and that ANI values of approximately 94% corresponded to the traditional 70% DNA-DNA reassociation standard of the current species definition. At the 94% ANI cutoff, current species includes only moderately homogeneous strains, e.g., most of the > 4-Mb genomes share only 65-90% of their genes, apparently as a result of the strains having evolved in different ecological settings. Furthermore, diagnostic genetic signatures (boundaries) are evident between groups of strains of the same species, and the intergroup genetic similarity can be as high as 98-99% ANI, indicating that justifiable species might be found even among organisms that are nearly identical at the nucleotide level. Notably, a large fraction, e.g., up to 65%, of the differences in gene content within species is associated with bacteriophage and transposase elements, revealing an important role of these elements during bacterial speciation. Our findings are consistent with a definition for species that would include a more homogeneous set of strains than provided by the current definition and one that considers the ecology of the strains in addition to their evolutionary distance.

=> s 12 and marker

L4 6 L2 AND MARKER

=> dup rem 14

PROCESSING COMPLETED FOR L4

L5 6 DUP REM L4 (0 DUPLICATES REMOVED)

=> d 1-6 ti

L5 ANSWER 1 OF 6 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Simple and straightforward construction of a mouse gene targeting vector using in vitro transposition reactions.

L5 ANSWER 2 OF 6 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Identification of genes affecting fluconazole susceptibility in *Candida*

glabrata using a custom transposon.

- L5 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Transposable luciferase expression cassettes for Gram positive bacteria and their use to monitor bacterial infections by in situ bioluminescence
- L5 ANSWER 4 OF 6 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI pTn5cat: A Tn5-derived genetic element to facilitate insertion mutagenesis, promoter probing, physical mapping, cloning, and marker exchanges in phytopathogenic and other gram-negative bacteria.
- L5 ANSWER 5 OF 6 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI Testing transposable elements as genetic drive mechanisms using Drosophila P element constructs as a model system.
- L5 ANSWER 6 OF 6 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI Identification of IS1356, a new insertion sequence, and its association with IS402 in epidemic strains of Burkholderia cepacia infecting cystic fibrosis patients.

=> d ab

- L5 ANSWER 1 OF 6 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
AB In a gene targeting experiment, the generation of a targeting construct often requires complex DNA manipulations. We developed a set of cassettes and plasmids useful for creating targeting vectors to modify the mammalian genome. A positive selection marker cassette(PGK/EM7p-npt), which included dual prokaryotic and eukaryotic promoters to permit consecutive selection for recombination in Escherichia coli and then in mouse embryonic stem cells, was flanked by two FRT-loxP sequences. The PGK/EM7p-npt cassette was placed between the minimum regions of a Tn7 transposable element for insertion into another DNA by means of Tn7 transposase in vitro. We also constructed a plasmid having a loxP-Zeo-loxP cassette between the modified Tn5 outer elements. These cassettes can be integrated randomly into a given genomic DNA through the in vitro transposition reaction, thus producing a collection of genomic segments flanked by loxP sites (floxed) at various positions without the use of restriction enzymes and DNA ligase. We confirmed that this system remarkably reduced the time and labor for the construction of complex gene targeting vectors.

=> d so

- L5 ANSWER 1 OF 6 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
SO Nucleic Acids Research, (05) Vol. 33, No. 5.  
CODEN: NARHAD. ISSN: 0305-1048.

=> s (ac or ds) and transpose?

- L6 373 (AC OR DS) AND TRANSPOSE?

=> del 16 y

=> s (ac or ds) and transpos?

- L6 1795 (AC OR DS) AND TRANSPOS?

=> s 16 and vector

- L7 116 L6 AND VECTOR

=> s 17 and transgenic

- L8 57 L7 AND TRANSGENIC

=> dup rem 18

PROCESSING COMPLETED FOR L8

- L9 41 DUP REM L8 (16 DUPLICATES REMOVED)

=> d 1-10 ti

- L9 ANSWER 1 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Transformation of Ac/Ds into rice and Ds  
transposition analysis of hybrids
- L9 ANSWER 2 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Fumonisin detoxification enzyme gene isolated from environmental  
microorganisms, compositions and methods for making fumonisin-resistant  
transgenic plants, and detoxification for grains and foods and  
feeds
- L9 ANSWER 3 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Selection of optimal primers for TAIL-PCR in identifying Ds  
flanking sequences from Ac/Ds insertion rice lines
- L9 ANSWER 4 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Application of acids transposon system to generate marker gene  
free transgenic plants in rice
- L9 ANSWER 5 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Method for constructing a tag system comprising transposase  
-coding genes and use for tagging plant genes
- L9 ANSWER 6 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN  
TI GST-MAT vector for the efficient and practical removal of marker  
genes from transgenic plants
- L9 ANSWER 7 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Methods for site-associated modification of gene activity and nucleic acid  
structure
- L9 ANSWER 8 OF 41 AGRICOLA Compiled and distributed by the National  
Agricultural Library of the Department of Agriculture of the United States  
of America. It contains copyrighted materials. All rights reserved.  
(2005) on STN DUPLICATE 1  
TI Transposon-mediated single-copy gene delivery leads to increased  
transgene expression stability in barley.
- L9 ANSWER 9 OF 41 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI Timing of transposition of Ac mobile element in  
potato.
- L9 ANSWER 10 OF 41 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
TI Activation of non-autonomous maize transposable element,  
Dissociation (Ds), by Ac-transposase in  
carrot.

=> d ab

- L9 ANSWER 1 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN  
AB A binary vector CamDs carrying the maize transposon  
Ds with activation tagging and gene trap was constructed. The  
maize transposon Ac/Ds was transferred into  
rice (*Oryza sativa* subsp. *japonica* cv. Xiushui 11) by *Agrobacterium*-  
mediated transformation method. The integration of Ac/  
Ds into rice genome was confirmed by PCR. The Ds  
-inserted transgenic plants were crossed with the  
transgenic plants carrying Ac transposase and  
a population of 12 hybrids was obtained. One hundred and eight hybrids  
consisting of both Ds and Ac were obtained by  
resistance assaying. The result of the Basta resistance test indicated  
that the excision frequency of Ds element trans-activated by  
Ac transposase was 13%, PCR anal. showed the similar  
result. The GUS staining indicated that the gene trap system could  
capture the expression of the genes in rice genome.

=> d so

L9 ANSWER 1 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN  
SO Zhongguo Shuidao Kexue (2005), 19(1), 1-6  
CODEN: ZSKHBX; ISSN: 1001-7216

=> d 3 agb

'AGB' IS NOT A VALID FORMAT

In a multifile environment, a format can only be used if it is valid in at least one of the files. Refer to file specific help messages or the STNGUIDE file for information on formats available in individual files.

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L9 ANSWER 3 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN

AB Infections with the Human papillomavirus(HPV) are related to the development of cervical cancer. It's very important to develop of an HPV prophylactic vaccine. Transgenic plants is a highly-profitable bioreactor, in this experiment, it was planning to establish HPV16-L1 transgenic plants, producing large amount of HPV16-L1 major capsid protein. The HPV16-L1 coding sequence was amplified by PCR with specific primers and plasmid pEGM-HPV16 used as a template, subcloned into middle vector pUCmT and binary vector pBI121 to obtain plant expression Vector pBI-L1. On the T-DNA regions of the pBI-L1 binary vector contained constitutive Cauliflower mosaic virus(CaMV) 35S promoter, nopaline synthase terminator, and neomycin phosphotransferase npt II gene, which allows the selection of transformed plants against kanamycin. The tobacco (Nicotiana tabacum L. Ctrttivar Xanthi) plants were transformed by co-cultivating leaf disks method via Agrobacterium tumefaciens LBA4404 harboring the plant expression vector. The regenerated transgenic tobacco plants were selected by kanamycin, and confirmed by PCR, Southern blot and Western blot. PCR and Southern blot analyses confirmed stable integration of the HPV16-L1 gene into the transformed tobacco plants genome. Western blot verified the expressed protein of interest being reactive with the antibody against HPV16-L1, showed that the protein was about 55 kD, consistent with the of HPV16-L1 protein, implying that the given protein was HPV16-L1. The levels of 1.1 expression were up to 0.076 of total soluble tobacco leaf protein by ELISA assay. Expressed protein of transgenic tobacco plants was analyzed by mouse erythrocyte hemagglutination assay(HA) and hemagglutination inhibition assay(HAI), which had the same bio-activity as the natural HPV-16L1 protein, causing murine erythrocyte agglutination and forming VLP by self-assemble in vitro. These results indicate clearly that transgenic HPV16-L1 tobacco plants were generated, and HPV16-L1 protein was expressed effectively in transgenic tobacco plants. This result is an important step close to developing an edible vaccine, which will contribute to the prevention of HPV 16 infectious. Thermal asym. interlaced-PCR, as a PCR-based technique in identifying DNA fragments flanking known sequences, has obtained wide application in different organisms thereby greatly promotes the efficiency in reverse genetics. Unfortunately, in spite of the fact that TAIL-PCR technique has been expanded vastly and adopted in transposon mutagenesis in rice, a reliable, highly reproducible TAIL-PCR procedure especially for rice genomic DNA is still not available, mainly due to the complexity of rice genome and the lack of optimal primers for TAIL-PCR in rice. Given the current situation, we designed 12 specific primers corresponding to 3' end or complimentary to 5' end of Ds insertion, which constitute 32 sets, each with 3 specific primers for three rounds of TAIL-PCR, for screening the optimal combinations of Ds-specific primers. Based on the massive results front pilot expts., two optimal sets of specific primers (Ds3L1/Ds3L2/Ds3S3 at 3' end; Ds5L1/Ds5S3 at 5' end) were chosen, and used together with six arbitrary degenerate(AD) primers, resp., to comparatively investigate the effects of arbitrary degenerate primers on the specificity of TAIL-PCR. Among the tested six AD primers, AD4 (5'-NTCAGSTWSGWGWT-3') possessing 128 fold degeneracy, was proved to

be the most efficient for TAIL-PCR with rice genomic DNA. Moreover, the results also implied that long specific primers in the primary reaction favored the TAIL-PCR by increasing specificity, and different AD primers led significant differences in PCR amplification, presumably due to great difference in degeneracy. The data may provide helpful information for TAIL-PCR technique to improve the efficiency in identifying DNA fragments flanking Ds insertion in rice or other organisms.

=> d 3 so

L9 ANSWER 3 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN  
 SO Shengwu Gongcheng Xuebao (2004), 20(6), 821-826  
 CODEN: SGXUED; ISSN: 1000-3061

=> d 11-20 ti

L9 ANSWER 11 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Transposon tagging and gene delivery in small grain cereals

L9 ANSWER 12 OF 41 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
 STN  
 TI Frequency and pattern of transposition of the maize  
 transposable element Ds in transgenic rice  
 plants.

L9 ANSWER 13 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Improvement of a new transformation method: MAT vector system

L9 ANSWER 14 OF 41 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
 STN  
 TI Transformation of korean chrysanthemum (Dendranthema zawadskii X D. X  
 grandiflorum) and insertion of the maize autonomous element Ac  
 using Agrobacterium tumefaciens.

L9 ANSWER 15 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2  
 TI Germinal virus vector WDV (wheat dwarf virus)-mediated multiple  
 insertions of a maize transposon, Ds (dissociation),  
 in rice

L9 ANSWER 16 OF 41 AGRICOLA Compiled and distributed by the National  
 Agricultural Library of the Department of Agriculture of the United States  
 of America. It contains copyrighted materials. All rights reserved.  
 (2005) on STN DUPLICATE 3  
 TI Effective selection system for generating marker-free transgenic  
 plants independent of sexual crossing.

L9 ANSWER 17 OF 41 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
 STN  
 TI Insertion of the maize transposable element Ac into  
 soybean (Glycine max L. Merr.) by Agrobacterium mediated transformation  
 method.

L9 ANSWER 18 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI P gene promoter constructs for floral-tissue preferred gene expression

L9 ANSWER 19 OF 41 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
 STN  
 TI The transposition frequency of Tag1 elements is increased in  
 transgenic Arabidopsis lines.

L9 ANSWER 20 OF 41 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 4  
 TI Transposition behavior of the maize transposable  
 element Ac in transgenic haploid tobacco

=> s ((lam e?) or (lam, e?))/au  
 L10 585 ((LAM E?) OR (LAM, E?))/AU

=> s l10 and transposase  
L11 1 L10 AND TRANSPOSASE

=> d ti

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Compositions and methods for targeted gene insertion

=> s l0 and transpos?  
L12 1 L0 AND TRANSPOS?

=> d ti

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Preparation and prototropic transposition of some  
γ-acetylenic acids

=> del l12 y

=> s l10 and transpos?  
L12 2 L10 AND TRANSPOS?

=> d 1-2 ti

L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Compositions and methods for targeted gene insertion

L12 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN  
TI From footprint to function: an approach to study gene expression and  
regulatory factors in transgenic plants

=> s l10 and (ac or ds)  
L13 8 L10 AND (AC OR DS)

=> dup rem l13  
PROCESSING COMPLETED FOR L13  
L14 5 DUP REM L13 (3 DUPLICATES REMOVED)

=> d 1-5 ti

L14 ANSWER 1 OF 5 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI Condylar shape analysis using panoramic radiography units and conventional  
tomography.

L14 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1  
TI H2O2 induces a transient multi-phase cell cycle arrest in mouse  
fibroblasts through modulating cyclin D and p21Cip1 expression

L14 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2  
TI BCR-ABL and interleukin 3 promote hematopoietic cell proliferation and  
survival through modulation of cyclin D2 and p27Kip1 expression

L14 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Compositions and methods for targeted gene insertion

L14 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3  
TI Caspases and programmed cell death in the hypersensitive response of  
plants to pathogens

=> d 2 ab

L14 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1  
AB To defend against the potential damages induced by reactive oxygen  
species, proliferating cells enter a transient cell cycle arrest. We



treated mouse fibroblasts with H2O2 and found that sublethal doses of H2O2 induced a transient multi-phase cell cycle arrest at the G1, S, and G2 phases but not the M phase. Western blot anal. demonstrated that this transient cell cycle arrest is associated with the down-regulation of cyclins D1 and D3 and up-regulation of the CKI (cyclin-dependent kinase inhibitor) p21Cip1 expression. We also demonstrate that the induction in p21Cip1 expression by H2O2 is at least partially mediated at the transcriptional level and can occur in the absence of p53 function. Further immunopptn. kinase and immunodepletion assays indicated that in response to H2O2 treatment, the down-regulation of cyclin Ds expression are associated with repression of cyclin D-CDK4, whereas the accumulation of p21Cip1 is responsible for the inhibition of cyclin E and A-CDK2 activity and associated with the down-regulation of cyclin B-CDC2 activity. These data could account for the cell cycle arrest at the G1, S, and G2 phases following H2O2 stimulation. Deletion of p21Cip1, restoration of cyclin D expression, or overexpression of cyclin E alone is insufficient to effectively overcome the cell cycle arrest caused by sublethal doses of H2O2. By contrast, overexpression of the human herpesvirus 8 K cyclin, which can mimic the function of cyclin D and E, is enough to override this transient cell cycle arrest. On the basis of our findings, we propose a model in which moderate levels of H2O2 induce a transient multi-phase cell cycle arrest at least partially through up-regulation of p21Cip1 and down-regulation of cyclin D expression.

=> s l10 and homologous recombination

L15 6 L10 AND HOMOLOGOUS RECOMBINATION

=> dup rem l15

PROCESSING COMPLETED FOR L15

L16 4 DUP REM L15 (2 DUPLICATES REMOVED)

=> d 1-4 ti

L16 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

TI Compositions and methods for targeted gene insertion

L16 ANSWER 2 OF 4 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Targeted gene insertion in higher plants via homologous recombination.

L16 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

TI Targeted disruption in Arabidopsis

L16 ANSWER 4 OF 4 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN DUPLICATE 1

TI Targeted disruption of the TGA3 locus in Arabidopsis thaliana.

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<input type="checkbox"/>	L8	L3 and activation tagging	1
<input type="checkbox"/>	L7	L6 and activation tagging	1
<input type="checkbox"/>	L6	L3 and homologous recombination	108
<input type="checkbox"/>	L5	L4 and homologous recombination	38
<input type="checkbox"/>	L4	L3 and maize	45
<input type="checkbox"/>	L3	L2 and positive select\$	126
<input type="checkbox"/>	L2	L1 and negative select\$	236
<input type="checkbox"/>	L1	transposase	1183

END OF SEARCH HISTORY